DOCUMENT RESUME

ED 393 690 SE 058 154

AUTHOR Beisenherz, Paul; Dantonio, Marylou
TITLE Using the Learning Cycle To Teach Physical Science: A Hands-on Approach for the Middle Grades.
REPORT NO ISBN-0-435-08376-7
PUB DATE 96
NOTE 145p.
AVAILABLE FROM Heinemann, 361 Hanover Street, Portsmouth, NH 03801-3912.
PUB TYPE Guides - Classroom Use - Teaching Guides (For Teacher) (052)

EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS Constructivism (Learning); Electric Circuits; Elementary Secondary Education; *Hands on Science; Inquiry; *Learning Processes; Mechanics (Physics); Middle Schools; *Physical Sciences; Science Activities; *Science Instruction; Scientific Concepts; Teaching Methods; Thinking Skills
IDENTIFIERS Acids; Gases; Learning Cycle Teaching Method

ABSTRACT

The Learning Cycle Strategy enables students themselves to construct discrete science concepts and includes an exploration phase, introduction phase, and application phase. This book focuses on the use of the Learning Cycle to teach physical sciences and is divided into three sections. Section I develops a rationale for the Learning Cycle as an effective way to teach science concepts. Section II includes six basic physical science concepts that are common to most middle school science curricula: Bernoulli's principle, acids and bases, properties of gases, expansion and contraction of gases, circuits, and density. Each Learning Cycle centers on a single concept or idea and includes a number of sequenced, hands-on activities. Section III provides an opportunity for teachers to develop their own Learning Cycle sequence and contains randomly sequenced activities related to the concept of surface tension. (JRH)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

THIS
DOCUMENT
NOT
AVAILABLE
FROM

EDRS